CLAIMS:

1. An electrophoretic display panel for displaying a picture comprising
   - a plurality of picture elements, each picture element comprising two electrodes for receiving a potential difference and charged particles being able to occupy positions between the electrodes, and
   - drive means being able to supply a sequence of potential difference pulses to each picture element, each sequence comprising
     - a response-changing pulse for changing the ability of the particles to respond to the potential difference without substantially changing the position of the particles, and
     - a picture pulse for bringing the particles into one of the positions for displaying the picture,

characterized in that,

with respect to at least a number of the picture elements, the drive means are further able to supply for each picture element out of said number a part of the picture pulse before an end of the response-changing pulse.

2. A display panel as claimed in claim 1 characterized in that the drive means are further able to supply for each picture element out of said number a further response-changing pulse before the part of the picture pulse.

3. A display panel as claimed in claim 1 characterized in that the response-changing pulse is a response-increasing pulse for increasing the ability of the particles to respond to the potential difference without substantially changing the position of the particles.

4. A display panel as claimed in claim 3 characterized in that the response-increasing pulse is a shaking pulse, the shaking pulse being a sequence of preset potential differences having preset values and associated preset durations, the preset values in the sequence alternating in sign, each preset potential difference representing a preset energy

sufficient to release particles present in one of extreme positions, the extreme positions being positions near the electrodes, from their position but insufficient to enable said particles to reach the other one of the extreme positions.

5. A display panel as claimed in claim 4 characterized in that each sequence of preset potential differences has an even number of preset potential differences.

6. A display panel as claimed in claim 1 characterized in that the drive means are further able to supply for each picture element out of said number the picture pulse to comprise a sequence of sub-picture pulses, each sub-picture pulse having a sub-picture value and an associated sub-picture duration, each sub-picture duration being equal to a predetermined constant.

7. A display panel as claimed in claim 6 characterized in that the drive means are further able to supply for each picture element out of said number the sequence of the sub-picture pulses to comprise at least one positive polarity and at least one negative polarity.

8. A display panel as claimed in claim 1 characterized in that the drive means are further able to supply for each picture element out of said number a reset pulse prior to both the response-changing pulse and the picture pulse, the reset pulse being able to bring the particles into one of the extreme positions, the reset pulse representing an energy being at least as large as a reference energy representing an energy to change the position of particles from their present position to one of the extreme positions.

9. A display panel as claimed in claim 8 characterized in that the energy of each reset pulse is substantially larger than the reference energy.

10. A display panel as claimed in claim 8 characterized in that each reset pulse is able to bring the particles into the extreme position which is closest to the position of the particles for displaying the picture.

11. A display panel as claimed in claim 1 characterized in that each picture element is one of the number of the picture elements.

12. A display device comprising the display panel as claimed in claim 1.